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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/675,049	09/30/2003	Ioannis Dotsikas	MUH-12818	5871	
24131 75	90 06/20/2005		EXAM	EXAMINER	
LERNER AND GREENBERG, PA			BERRY, RENEE R		
P O BOX 2480 HOLLYWOOD	, FL 33022-2480		ART UNIT PAPER NUMBER		
			2818		
			DATE MAILED: 06/20/2005		

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No. Applicant(s)					
	10/675,049	DOTSIKAS, IOANNIS				
Office Action Summary	Examiner	Art Unit	(4,			
	Renee R. Berry	2818				
The MAILING DATE of this communication apperiod for Reply	pears on the cover sheet with the o	correspondence add	lress			
A SHORTENED STATUTORY PERIOD FOR REPL THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1. after SIX (6) MONTHS from the mailing date of this communication. If the period for reply specified above is less than thirty (30) days, a rep If NO period for reply is specified above, the maximum statutory period Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tir ly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this cor D (35 U.S.C. § 133).				
Status						
1) Responsive to communication(s) filed on <u>06 J</u>	lanuary 2005.					
2a) ☐ This action is FINAL . 2b) ☒ This	s action is non-final.					
·	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.					
Disposition of Claims						
4) Claim(s) 13-17 is/are pending in the application 4a) Of the above claim(s) is/are withdray 5) Claim(s) is/are allowed. 6) Claim(s) 13-17 is/are rejected. 7) Claim(s) is/are objected to. 8) Claim(s) are subject to restriction and/or	own from consideration.					
Application Papers						
9) ☐ The specification is objected to by the Examina 10) ☑ The drawing(s) filed on 11 December 2003 is/o Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct of the oath or declaration is objected to by the E	are: a) \square accepted or b) \square object drawing(s) be held in abeyance. Section is required if the drawing(s) is ob	e 37 CFR 1.85(a). jected to. See 37 CFI	R 1.121(d).			
Priority under 35 U.S.C. § 119						
a) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of: 1. Certified copies of the priority documen 2. Certified copies of the priority documen 3. Copies of the certified copies of the priority application from the International Burea * See the attached detailed Office action for a list	ts have been received. ts have been received in Applicat prity documents have been receiv tu (PCT Rule 17.2(a)).	ion No ed in this National S	Stage			
Attachment(s) 1) Notice of References Cited (PTO-892) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08 Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail D 5) Notice of Informal I 6) Other:		-152)			

DETAILED ACTION

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 13-17 are rejected under 35 U.S.C. 102(b) as being clearly anticipated by US Patent No. 5,484,484 to Yamaga et al.

In regards to claim 13, Yamaga teaches a furnace for vapor phase depositing components contained in a process gas onto a plurality of semiconductor substrates, the furnace comprising: a process space for receiving the semiconductor substrate; a first feed/discharge line connected to said process space (Fig. 1, ref. # 4); a second feed/discharge line (Fig. 1, ref. # 6); a first feed/discharge line (Fig. 1, ref. # 5); second feed/discharge line (Fig. 1, ref. # 7); a device for producing a process gas flow, said device for producing said process gas flow connected to said first feed/discharge line and/or said second feed/discharge line causing the process gas to flow laterally past the stack defining a main flow direction (Fig. 1, ref. # W; vertical); a heating device (Fig. 1, ref. # 22); and a regulating unit for regulating a magnitude (Fig. 1, ref. # 20).

In regards to claim 14, Yamanga teaches the furnace according to claim wherein said first feed/discharge line and/or said second feed/discharge line are configured at opposite sides of said process space (Fig. 1, ref. #s 4 and 6).

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In regards to claim 15, Yamanga teaches the furnace according to claim wherein said regulating unit is configured for changing a main flow direction of said process gas flow at intervals in accordance with a variable time pattern at column 5, lines 55-61 and column 6, lines 16-27.

In regards to claim 16, Yamanga teaches the furnace according to claim 13, further comprising: a measuring unit for detecting a quantity and/or a distribution of the components deposited onto the semiconductor substrate at column 5, lines 23-31.

In regards to claim 17, Yamanga teaches the furnace according to claim 16, further comprising: a control unit connected to said measuring unit, said control unit for an online control of said device for producing a process gas flow at column 5, lines 23-31.

Response to Amendment

Applicant argues that the reference does not teach a plurality of substrates in the furnace disposed one above another at a short distance to form a stack; nor does the reference teach defining a main flow direction which changes by 180 degrees.

Yamanga teaches a plurality of platforms for supporting a plurality of substrates within a chamber; and the substrate can be rotated to 180 degrees during the deposition process at Fig. 1, ref. W

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Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Renee R Berry whose telephone number is (571) 272-1774. The examiner can normally be reached on M-F 9-5:30.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

RRB

June 10, 2005

David Nolme

Supervisory Patent Examiner Technology Center 2800